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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Schengrund et al.

Serial No.: 10/796,707

Group Art Unit: 1645

Filed: March 9, 2004

Examiner:

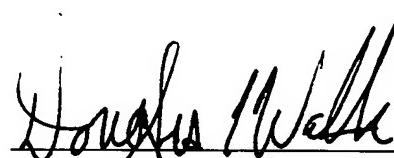
For: USE OF MULTIVALENT GLYCODENDRIMERS TO INHIBIT THE ACTIVITY OF
HUMAN IMMUNODEFICIENCY VIRUS

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR BEFORE MAILING
OF FIRST OFFICE ACTION (37 CFR 1.97(b))**

U.S. Patent and Trademark Office
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 CFR 1.97(b).

Date: November 11, 2004



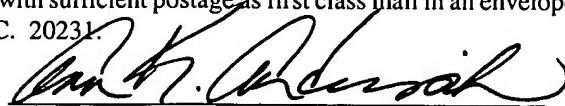
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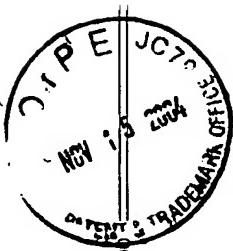
CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to:
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Date: November 11, 2004



Ann K. Andrusiak



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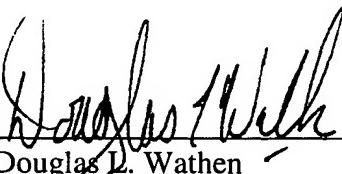
Commissioner for Patents
PO Box 1450
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Dear Sir:

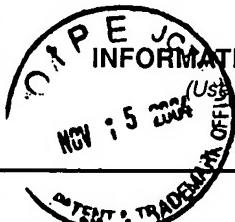
In compliance with the duty of disclosure under 37 C.F.R. §1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. §1.97(g), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possible material information as defined in 37 C.F.R. §1.56(a) exists. In accordance with 37 C.F.R. §1.97(h) this Information Disclosure Statement is not to be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56(b).

Respectfully submitted,

By 
Douglas L. Wathen
Reg. No. 41,369

Date: November 11, 2004


INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

ATTY DOCKET NO.

PST-11702/36

APPLICATION NO.

10/796,707

APPLICANT(S)

Schengrund et al.

FILING DATE

March 9, 2004

GROUP ART UNIT

1645
U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,359,461	11/16/1982	Nair et al.	424	180	
		4,783,446	11/8/1988	Neushul	514	54	
		4,840,941	6/20/1989	Ueno et al.	514	59	
		4,952,683	8/28/1990	Tschannen et al.	536	186	
		5,153,181	10/6/1992	Diringer et al.	514	54	

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2002/0146803 A1	10/10/2002	Jones et al.	435	222	
		2001/0018200 A1	8/30/2001	Jones et al.	435	183	
		2002/0019039 A1	2/14/2002	Davis et al.	435	221	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Peter R. Ashton, Sue E. Boyd, Christopher L. Brown, Sergey A. Nepogodiev, E.W. Meijer, H.W.I. Peerlings, and J. Fraser Stoddard, "Synthesis of Glycodendrimers by Modification of Poly(propylene imine) Dendrimers," <i>Chem. Eur. J.</i> 1997, 3, No. 6, pp. 974-984
		S. David and S. Hanessian, "Regioselective Manipulation of Hydroxyl Groups Via Organotin Derivatives," <i>Tetrahedron</i> , Vol. 41, No. 4, pp. 643-663, 1985.

EXAMINER
DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		5,280,111	1/18/1994	Shoji et al.	536	4.1	
		5,447,919	9/5/1995	Hosang et al.	514	53	
		5,736,346	4/7/1998	Tezon et al.	435	7.21	
		5,736,533	4/7/1998	Simon et al.	514	61	
		5,834,020	11/10/1998	Margerum et al.	424	484	

U.S. PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

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							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

Benedicte Guilbert, Nicola J. Davis, Melanie Pearce, Robin T. Aplin and Sabine L. Flitsch, "Dibutylstannylene Acetals: Useful Intermediates for the Regioselective Sulfation of Glycosides," *Tetrahedron: Asymmetry*, Vol. 5, No. 11, pp. 2163-2178, 1994.

G. Dubois, B. Zalc, F. Le Saux, and N. Baumann, "Stearoyl [1-14C]Sulfogalactosylsphingosine ([14C]Sulfatide) as Substrate for Cerebroside Sulfatase Assay," *Analytical Biochemistry*, 102, 313-317 (1980)

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				Schengrund et al.			
				FILING March 9, 2004	GROUP ART 1645		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,869,460	2/9/1999	Usui et al.	514	25	
		6,060,235	5/9/2000	Neenan et al.	435	5	
		6,063,773	5/16/2000	Anderson et al.	514	57	
		6,258,525	7/10/2001	Benoff	435	2	
		6,288,197	9/11/2001	Youngs et al.	528	25	
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
							NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Murugesapillai Mylvaganam and Clifford A. Lingwood, "Oxidation of Aglycone of Glycosphingolipids: Serine and Ceramide Acid Precursors for Soluble Glycoconjugates," Methods Enzymol 312, pp. 473-487, 2000					
		Norman S. Radin, "Preparation of Psychosines (1-O-Hexosyl Sphingosine) from Cerebrosides," Lipids - 9, pp 358-360, 1974					
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,464,971	10/15/2002	Matthews et al.	424	78.17	
		6,190,650	2/20/2001	Matthews et al.	424	78.17	
		6,417,339	7/9/2002	Wiessler et al.	536	4.1	
		6,627,744	9/30/2003	Davis et al.	536	18.6	
		6,628,126	9/30/2003	Allen	324	753	

U.S. PATENT APPLICATION PUBLICATIONS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Hugues Driguez, "Thiooligosaccharides as Tools for Structural Biology," Chembiochem, 2, pp. 311-318, 2001.
		Mikael Elofsson, Bjorn Walse, and Jan Kihlberg, "Building Blocks for Glycopeptide Synthesis: Glycosylation of 3-Mercaptopropionic Acid and Fmoc Amino Acids with Unprotected Carboxyl Groups," Tetrahedron Letters, Vol 32, No. 51, pp. 7613-7616, 1991.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		G. Magnusson, G. Noori, J. Dahmen, T. Frejd and T. Lave, "BF3-Etherate Induced Formation of 2,2,2-Trichloroethyl Glycopyranosides Selective Visualization of Carbohydrate Derivatives on TLC Plates," Acta Chemica Scandinavica B 35, pp. 213-216 (1981)
		A. Lubineau and R. Lemoine, "Regioselective Sulfation of Galactose Derivatives through the Stannylene Procedure New Synthesis of the 3'-O-Sulfated Lewis Trisaccharide," Tetrahedron Letters, Vol. 35, No. 47, pp. 8795-8796 (1994)

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Docket Number (Optional)

PST-11702/36

Application Number

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Applicant(s)

Schengrund et al.

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Group Art Unit

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*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Cara-Lynne Schengrund and Nancy J. Ringler, "Binding of Vibrio cholera Toxin and the Heat-labile Enterotoxin of Escherichia coli to Gm1, Derivatives of Gm1, and Nonlipid Oligosaccharide Polyclonal Ligands," The Journal of Biological Chemistry, Vol. 264, No. 22, August 5, 1989, pp. 13233-13237.

Emmanuel Poirot, Xiaodong Zhang, Noel F. Whittaker, Pavol Kovac, "Syntheses of the L-manno and some other analogs of the terminal determinants of the O-PS of Vibrio cholerae O:1," Carbohydrate Research, 330, pp. 7-20 (2001)

Yoshihiro Nishida, Hirotaka Uzawa, Tadashi Toba, Kenji Sasaki, Hirosato Kondo, and Kazukiyo Kobayashi, "A Facile Synthetic Approach to L- and P-Selectin Blockers via Copolymerization of Vinyl Monomers Constructing the Key Carbohydrate Modules of Sialyl Lewisx Mimics," Biomacromolecules, 1, pp. 68-74 (2000)

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